

AMENDMENTS TO THE CLAIMS

Please amend claims 1 and 8 and cancel claim 7 as follows:

Claim 1 (currently amended) A CMP slurry composition for oxide films comprising:

a solvent;

an abrasive dispersed in the solvent;

an HXO_n compound, wherein x is a halogen selected from the group consisting of F, Cl and Br and n is an integer ranging from 2 to 4; and
wherein the composition has a pH ranging from 2 to 5.

Claim 2 (original) The CMP slurry composition for oxide film according to claim 1, wherein the abrasive is colloidal or fumed SiO_2 having a grain size of 20 to 300 nm.

Claim 3 (original) The CMP slurry composition for oxide film according to claim 1, wherein the abrasive is Al_2O_3 .

Claim 4 (original) The CMP slurry composition for oxide film according to claim 1, wherein the abrasive is CeO_2 .

Claim 5 (canceled)

Claim 6 (canceled)

Claim 7 (canceled)

Claim 8 (currently amended) The CMP slurry composition for oxide film according to claim 1, wherein the HXO_n compound is selected from the group consisting of HClO , HClO_3 , HClO_4 , and HBrO_3 , HIO_3 and HIO_4 .

Claim 9 (original) The CMP slurry composition for oxide film according to claim 1, wherein the HXO_n compound is present in an amount ranging from 0.01 to 10 wt% based on the CMP slurry.

Claim 10 (original) The CMP slurry composition for oxide film according to claim 9, wherein the HXO_n compound is present in an amount ranging from 0.1 to 5 wt% based on the CMP slurry.

Claim 11 (original) The CMP slurry composition for oxide film according to claim 1, wherein a polishing selectivity ratio of the slurry composition for a nitride film to an oxide film ranges from 1:1 to 1:3.

Claim 12 (original) The CMP slurry composition for oxide film according to claim 1, wherein a polishing selectivity ratio of the slurry composition for a nitride film to an oxide film ranges from 1:1 to 1:2.

Claim 13 (original) The CMP slurry composition for oxide film according to claim 7, wherein a polishing selectivity ratio of the slurry composition for a nitride film to an oxide film ranges from 1:1 to 1:3.

Claim 14 (previously presented) The CMP slurry composition for oxide film according to claim 8 , wherein a polishing selectivity ratio of the slurry composition for a nitride film to an oxide film ranges from 1:1 to 1:2.

Claim 15 (previously presented) A method for forming a metal line contact plug of a semiconductor device, comprising:

depositing a conductive material for word line on a semiconductor substrate;
forming a word line pattern by depositing a hard mask nitride film on the conductive material for word line;
forming a nitride film spacer at the side of the word line pattern;
forming a planarized interlayer insulating film on the word line pattern;
forming a contact hole by etching the interlayer insulating film until the substrate is exposed;
forming a silicon layer on the entire surface of the interlayer insulating film having the contact hole; and

performing a CMP process on the silicon layer and the interlayer insulating film, by using a CMP slurry composition for oxide film of ~~in~~ claim 1 until the hard mask nitride film is exposed.

Claim 16 (original) The method according to claim 15, wherein the conductive material for word line is selected from the group consisting of doped silicon, polysilicon, tungsten (W), tungsten nitride (WN), tungsten silicide (WSi_x) and titanium silicide (TiSi_x).

Claim 17 (original) The method according to claim 15, wherein the word line pattern is formed by an etching process using CCl₄ or Cl₂ gas.

Claim 18 (original) The method according to claim 15, wherein the spacer is formed by using TEOS(tetraethoxysilicate glass) or silane(SiH₄)-base oxide film.

Claim 19 (original) The method according to claim 15, wherein the interlayer insulating film is selected from the group consisting of BPSG(borophosphosilicate glass), PSG(phosphosilicate glass), FSG(fluorosilicate glass), PE-TEOS(plasma enhanced tetraethoxysilicate glass), PE-SiH₄(plasma enhanced-silane), HDP USG(high density plasma undoped silicate glass), HDP PSG(high density plasma phosphosilicate glass) and APL(atomic planarization layer) oxide.

Claim 20 (original) The method according to claim 15, wherein the contact hole is formed by an etching process using C₄F₈, C₂F₆ or C₃F₈ source.

Claim 21 (original) The method according to claim 15, wherein the silicon layer is formed of a doped silicon or polysilicon using SiH₄ or Si₂H₆ source.

Claim 22 (original) The method according to claim 15, wherein the CMP process is performed by using a hard pad.